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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,812	11/12/2003	Urban Blomberg	P03,0407	6958
7590 04/04/2007 SCHİFF HARDIN & WAITE			EXAMINER	
Patent Departme			NASSER, ROBERT L	
6600 Sears Tow 233 South Wack			ART UNIT	PAPER NUMBER
Chicago, IL 606			3735	
SHORTENED STATUTORY	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	SHTI	04/04/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)				
	10/706,812	BLOMBERG ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Robert L. Nasser	3735				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet w	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNION FR 1.136(a). In no event, however, may a ron. Decided will apply and will expire SIX (6) MON statute, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a)☐ This action is FINAL . 2b)⊠	This action is non-final.					
3) Since this application is in condition for al	lowance except for formal matt	ers, prosecution as to the merits i	S			
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-12</u> is/are pending in the applic	ation.	•				
4a) Of the above claim(s) is/are wit						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8,11 and 12</u> is/are rejected.		•				
7)⊠ Claim(s) <u>9, 10</u> is/are objected to.						
8) Claim(s) are subject to restriction a	and/or election requirement.	•				
Application Papers						
9) The specification is objected to by the Exa	nminer					
10) The drawing(s) filed on is/are: a)		by the Examiner.				
Applicant may not request that any objection t						
Replacement drawing sheet(s) including the c			(d) ['] .			
11) The oath or declaration is objected to by t	he Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. 8	119(a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:	roigin priority ariabi ao a.a.a.	(1)				
1. Certified copies of the priority docu	ments have been received.	•	•			
2. Certified copies of the priority docu		pplication No				
3. Copies of the certified copies of the						
application from the International B	ureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for	a list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-94	Paper No(s)/Mail Date				
3) M Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/7/2004.	5) Notice of I 6) Other:	nformal Patent Application				
U.S. Patent and Trademark Office			207			
PTOL-326 (Rev. 08-06) Of	fice Action Summary	Part of Paper No./Mail Date 20070	32/			

Art Unit: 3735

Claims 2 and 6 are objected to in that applicant ha snot defined the parameter b in the claims.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2 and 6 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claims 2 and 6 lack enablement in that on page 3 of the specification, compliance is defined as a function of volume. However, Equation 2 shows compliance as a function of itself multiplied by a volume to the power (1-b). It is unclear how compliance is a function of itself.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Application/Control Number: 10/706,812

Art Unit: 3735

Claims 1, 3, 4, 5, 7, 8, and 12 rejected under 35 U.S.C. 102(b) as being anticipated by Yamada 5316009. Yamada teaches a method for measuring Wmus or the work of the muscles in breathing, which is an index of pulmonary stress, where air is supplied to t a patient at a pressure Paw and a flow rate, both of which are measured, and Wmus is calculated using Paw, the flow rate, airway resistance, and elasticity, which is the inverse of compliance (see abstract and equation 5). Claim 3 is rejected in that the value is calculated on a breath by breath basis. Claim 4 is rejected in that Yamada determines the average value of work (see column 6, lines 40-45). Claims 5, 7, and 8 are rejected in that Yamada teaches the corresponding device. Claim 12 is rejected in that the control unit controls a ventilator parameter, such as PEEP.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yamada in view of Banner et al 6820618. Banner teaches measuring a value of work of breathing and sounds an alarm if the value is out of range. Hence, it would have been obvious to modify Yamada to sound such an alarm when the value is out of range, to enable help to be received. In addition, Yamada has the display 19.

Claims 2 and 6 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 1st paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Art Unit: 3735

Claims 9 and 10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 2 and 6 define over the art in that none of the art uses the recited formula.

Claims 9 and 10 define over the art in that none of the art determines stress relative to the interval as recited in the claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Weismann 5876352 discusses work or stress determining methods in the background section.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert L. Nasser whose telephone number is 571 272-4731. The examiner can normally be reached on m-f 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor II can be reached on 571 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3735

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert L. Nasser Primary Examiner Art Unit 3735

RLN March 28, 2007

CHARLES A. MARMOR II
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TECHNOLOGY CENTER 3700